JETP LETTERS

Volume 19 **January–June 1974**

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a translation of
ЖЭТФ ПИСЬМА В РЕДАКЦИЮ
JETP Pis'ma v Redaktsiyu (JETP Letters to the Editor) of the
Academy of Sciences of the USSR
Russian original Vol. 19, January–June 1974

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13.80.F Inelastic scattering, two–particle final states

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21. NUCLEAR STRUCTURE

21.10.– General nuclear properties

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24. NUCLEAR REACTIONS AND SCATTERING, GENERAL

24.30.– Resonance reactions and scattering

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25.20.+ Photonuclear reactions and scattering ($A \geq 5$)

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25.30.+ Lepton-induced reactions and scattering ($A \geq 5$)

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27. PROPERTIES OF SPECIFIC NUCLEI LISTED BY MASS RANGES

27.20.+ $6 \leq A \leq 19$

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27.90.+ $220 \leq A$

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41.60.+ Electrical phenomena

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43.45.M Plasma turbulence

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51. STRUCTURE OF LIQUIDS AND SOLIDS; CRYSTALLOGRAPHY

51.70.– Defects in crystals

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51.80.– Radiation damage and other irradiation effects

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51.90.+ Other topics in structure of liquids and solids

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53. LATTICE DYNAMICS

53.10.+ General theory

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53.20.– Phonons and vibrations in crystal lattices

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54. EQUATIONS OF STATE, PHASE EQUILIBRIA, AND PHASE TRANSITIONS

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61. ELECTRON STATES

61.30.– Nonlocalized single–particle electronic states

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61.70.– Impurity and defect levels; positron states

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61.80.– Polarons, excitons, and other excitations

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61.80.E Polarons

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61.80.G Complex centers

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62. ELECTRONIC TRANSPORT IN CONDENSED MATTER

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62.20.– Conductivity phenomena in semiconductors and insulators

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62.20.D General theory, scattering mechanisms

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62.20.H High field and nonlinear effects

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62.20.M Galvanomagnetic and other magnetotransport effects

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62.20.P Thermoelectric effects

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62.40.+ Photoconduction and photovoltaic effects

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62.90.+ Other topics in electronic transport in condensed matter

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63.60.– Thin films

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64. SUPERCONDUCTIVITY

64.20.– Equilibrium properties

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64.40.– Nonequilibrium and transport properties

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64.40.K Thermal conductivity

Observation of superconducting current excited in a superconductor by heat flow —N. V. Zavaritskii. **19**(4), 126–8 (20 Feb. 1974); CPM-7406X0126

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64.40.P Critical currents and flux pinning ac behavior

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Isothermal domains in quasi-one-dimensional superconductors —K. K. Likharev. **20**(11), 338–9 (5 Dec. 1974)

64.60.+ Tunneling and coupled superconductors

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High-frequency behavior of the amplitude of a nonstationary Josephson current —L. L. Malinovskii. **20**(8), 250–1 (20 Oct. 1974)

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64.70.– Superconducting materials

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64.90.+ Other topics in superconductivity

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65. MAGNETIC PROPERTIES AND MATERIALS

65.20.– Diamagnetism and paramagnetism

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65.30.– Magnetically ordered materials, intrinsic properties

Phase transitions in a two-dimensional ferromagnet with "easy plane" anisotropy —Yu. S. Karimov and Yu. N. Novikov. **19**(5), 159–60 (5 Mar. 1974); CPM-7406X0331

Discontinuity of the hyperfine field at Co^{59} nuclei in intermetallic compounds with gadolinium —K. P. Belov, V. A. Vasil'kovskiĭ, N. M. Kovtun, A. K. Kupriyanov, and S. A. Nikitin. **20**(10), 304–5 (20 Nov. 1974); CPM-7505X0064

65.30.C Saturation moments and magnetic susceptibility

Test of three scaling functions for $Y_3Fe_5O_{12}$ —I. K. Kamilov, Kh. K. Aliev, and M. M. Magomedov. **19**(2), 78–80 (20 Jan. 1974); CPM-7406X0078

Magnetic moment of Mn atoms in the $Ni_{1-x}Mn_x$ system —P. N. Stetsenko and V. V. Surikov. **19**(3), 97–100 (5 Feb. 1974); CPM-7406X0097

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65.30.E Exchange and superexchange interactions

Temperature hysteresis of the magnetization in orthoferrites at the compensation point —V. N. Derkachenko, A. M. Kadomtseva, V. A. Timofeeva, and V. A. Khokhlov. **20**(4), 104–5 (20 Aug. 1974); CPM-7502X0276

Ferromagnetism of 3d metals —I. A. Akhiezer, V. G. Syshchenko, and E. M. Chudnovskiĭ. **20**(11), 342–3 (5 Dec. 1974)

65.30.J Critical point effects, specific heats, short-range order, and magnetic transitions, general

Nonlinear absorption of electromagnetic energy in an isotropic ferromagnet —V. M. Gryanik. **19**(1), 25–6 (5 Jan. 1974); CPM-7406X0025

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65.30.L Ferromagnetic–paramagnetic transitions

Test of three scaling functions for $Y_3Fe_5O_{12}$ —I. K. Kamilov, Kh. K. Aliev, and M. M. Magomedov. **19**(2), 78–80 (20 Jan. 1974); CPM-7406X0078

65.30.N Ferromagnetic–antiferromagnetic transitions

Observation of ferromagnetic state in antiferromagnetic alloys of the $Mn_{1-x}Fe_xAs$ system —A. A. Galkin, É. A. Zavadskiĭ, V. M. Smirnov, and V. I. Val'kov. **20**(4), 111–2 (20 Aug. 1974); CPM-7502X0283

65.40.– Spin arrangements (neutron studies, etc.)

Neutron depolarization in MnF_2 —G. P. Gordeev, G. M. Drabkin, I. M. Lazebnik, A. A. Aksel'rod, and B. P. Toperverg. **19**(4), 135–6 (20 Feb. 1974); CPM-7406X0135

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65.50.– Studies of specific magnetic materials

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65.60.– Domain effects, magnetization curves, and hysteresis

Asymmetry of motion of domain wall in an orthoferrite crystal —G. S. Kandaurova, V. O. Vas'kovskiĭ, A. V. Deryagin, and V. K. Raev. **19**(2), 80–2 (20 Jan. 1974); CPM-7406X0080

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65.80.+ Magnetomechanical effects and magnetostriction (including magnetoacoustic effects)

Role of magnetic interaction in oscillations of the magnetostriction of tin —V. M. Pudalov. **19**(7), 250–1 (5 Apr. 1974); CPM-7408X1408

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65.90.+ Other topics in magnetic properties and materials

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66. MAGNETIC RESONANCE AND RELAXATION IN CONDENSED MATTER; MOSSBAUER EFFECT

66.30.– Electron spin resonance and relaxation

Nature of noninteracting spins in organic paramagnets —A. V. Zvarykina, V. B. Stryukov, D. N. Fedutin, and A. B. Shapiro. **19** (1), 1–2 (5 Jan. 1974); CPM-7406X0001

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66.50.+ Ferromagnetic, antiferromagnetic, and ferrimagnetic resonances; spin-wave resonance

Contribution to the theory of magnetoelectric resonance —V. A. Kolganov. **19**(8), 270 (20 Apr. 1974); CPM-7409X0252

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66.60.– Nuclear magnetic resonance and relaxation

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66.80.+ Mossbauer effect; other γ-ray spectroscopy

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Experimental observation of the birefringence of Mössbauer radiation in an antiferromagnetic hematite crystal —V. G. Labushkin, S. N. Ivanov, and G. V. Chechin. **20**(6), 157–8 (20 Sep. 1974); CPM-7503X0691

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66.90.+ Other topics in magnetic resonance and relaxation

"Slow" depolarization of positive muons in aqueous solutions of paramagnetic ions —E. V. Minaichev, G. G. Myasishcheva, Yu. V. Obukhov, V. S. Roganov, G. I. Savel'ev, and V. G. Firsov. **19**(3), 92–4 (5 Feb. 1974); CPM-7406X0092

67. DIELECTRIC PROPERTIES AND MATERIALS

Observation of light diffraction by electron waves accompanying sound in piezosemiconductors —V. V. Proklov, V. I. Mirgorodskiĭ, G. N. Shkerdin, and Yu. V. Gulyaev. **19**(1), 7–8 (5 Jan. 1974); CPM-7406X0007

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68. OPTICAL PROPERTIES AND CONDENSED-MATTER SPECTROSCOPY

68.20.– Optical properties and materials

Rotation of the spin of particles in optically active media —V. G. Baryshevskiĭ. **20**(6), 190–1 (20 Sep. 1974); CPM-7503X0724

68.20.F Birefringence (including stress birefringence, flow birefringence, etc.)

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68.20.H Piezo–, elasto–, and acousto–optical effects

Photostimulated acoustomagnetoelectric effect in semiconductors — É. M. Épshtein. **19**(10), 332–3 (20 May 1974); CPM-7409X0284

Feasibility of generation of high–power hypersound with the aid of laser radiation —O. V. Rudenko. **20**(7), 203–4 (5 Oct. 1974); CPM-7503X1403

68.20.J Electro–optical effects

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68.45.+ Stimulated emission

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68.50.– Impurity and defect absorption in solids

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68.60.H Cathodoluminescence

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68.80.+ Optical properties of thin films

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69. ELECTRON AND ION EMISSION BY LIQUIDS AND SOLIDS; IMPACT PHENOMENA

69.20.– Impact phenomena, including electron spectra and sputtering

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69.70.+ Field emission and field ionization

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71. OPTICS

71.10.– Propagation and transmission in homogeneous and isotropic media

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71.60.C Gas and ion lasers

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71.60.Q Laser beam applications

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71.65.– Nonlinear optics

71.65.D Stimulated Raman, parametric oscillations, and other interactions of radiation with matter

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71.65.F Harmonic generation

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